

US008336772B2

(12) United States Patent

Racz et al.

(10) Patent No.:

US 8,336,772 B2

(45) **Date of Patent:**

*Dec. 25, 2012

(54) DATA STORAGE AND ACCESS SYSTEMS

(75) Inventors: **Patrick Racz**, Saint Heller (JE);

Hermen-ard Hulst, Amsterdam (NL)

(73) Assignee: Smartflash Technologies Limited, Road

Town, Tortola (VG)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 13/212,047

(22) Filed: Aug. 17, 2011

(65) **Prior Publication Data**

US 2011/0302054 A1 Dec. 8, 2011

Related U.S. Application Data

(63) Continuation of application No. 12/943,872, filed on Nov. 10, 2010, now Pat. No. 8,118,221, which is a continuation of application No. 12/014,558, filed on Jan. 15, 2008, now Pat. No. 7,942,317, which is a continuation of application No. 11/336,758, filed on Jan. 19, 2006, now Pat. No. 7,334,720, which is a continuation of application No. 10/111,716, filed on Sep. 17, 2002, now abandoned.

(51)	Int. Cl.	
	G06K 5/00	(2006.01)

- (52) **U.S. Cl.** 235/380; 235/492

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

4.341.951 A	7/1982	Benton				
4,590,365 A *		Okada 235/379				
4,697,073 A	9/1987	Hara				
5,148,432 A	9/1992	Gordon et al.				
5,226,145 A	7/1993	Moronaga et al.				
5,367,150 A	11/1994	Kitta et al.				
5,406,619 A	4/1995	Akhteruzzaman et al.				
5,457,746 A	10/1995	Dolphin				
5,532,466 A	7/1996	Konno et al.				
5,588,146 A	12/1996	Leroux				
5,677,953 A	10/1997	Dolphin				
5,682,027 A *	10/1997	Bertina et al 235/380				
(Continued)						

FOREIGN PATENT DOCUMENTS

EP 0 195 098 10/1990 (Continued)

Primary Examiner — Thien M Le

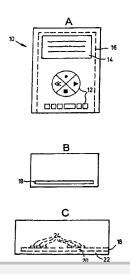
(74) Attorney Agent or Firm — Kilpatrick To

(74) Attorney, Agent, or Firm — Kilpatrick Townsend & Stockton LLP

(57) ABSTRACT

Data storage and access systems enable downloading and paying for data such as audio and video data, text, software, games and other types of data. A portable data carrier has an interface for sending and receiving data, data memory for storing received content data, and payment validation memory for providing payment validation data to an external device. The carrier may also store a record of access made to the stored content, and content use rules for controlling access to the stored content. Embodiments store further access control data and supplementary data such as hot links to web sites and/or advertising data. A complementary data access terminal, data supply computer system, and data access device are also described. The combination of payment data and stored content data and use rule data helps reduce the risk of unauthorized access to data such as compressed music and video data, especially over the Internet.

36 Claims, 17 Drawing Sheets



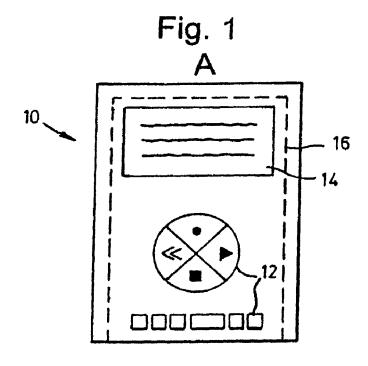


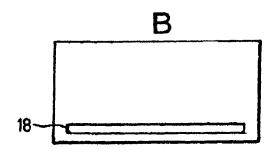
US 8,336,772 B2

Page 2

U.S. 1	PATENT	DOCUMENTS	6,721,749			Najm et al.
5,703,951 A	12/1007	Dolphin	6,747,930			Weldon et al.
			6,981,179	B1 '	12/2005	Shigemasa et al 714/36
5,740,369 A		Yokozawa et al.	6,993,507	B2	1/2006	Meyer et al.
5,744,787 A		Teicher	6,999,936	B2	2/2006	Sehr
5,754,654 A		Hiroya et al.	7,000,836	B2	2/2006	Saeki
5,794,202 A	8/1998		7,044,362	B2	5/2006	Yu
5,809,241 A		Hanel et al.	7,083,081			McGee et al.
5,845,201 A		Funke et al.	7,334,720		2/2008	Hulst et al.
5,845,281 A		Benson et al.	7,677,446		3/2010	
5,847,372 A	12/1998		7,942,317		5/2011	Racz et al.
5,874,760 A		Burns et al.	2003/0163594		8/2003	Aasheim et al.
5,889,860 A		Eller et al.	2003/0168515		9/2003	Gray
5,901,330 A	5/1999		2006/0179211		8/2006	Aasheim et al.
5,918,213 A		Bernard et al.	2006/0249570		11/2006	Seifert et al.
5,923,884 A		Peyret et al.	2007/0162300		7/2007	Roever et al.
5,933,498 A	8/1999	Schneck et al.	2008/0041938		2/2008	
5,936,220 A	8/1999	Hoshino et al.	2008/0314974			Hulst et al.
6,012,634 A	1/2000	Brogan et al.	2000/0317777	А	12/2000	Truist et al.
6,018,720 A	1/2000	Fujimoto	FC	DREI	GN PATE	NT DOCUMENTS
6,025,973 A *	2/2000	Mizoshita et al 360/98.08				
6,078,917 A	6/2000	Paulsen et al.	EP		3 198 A2	5/1996
6.119.945 A	9/2000	Muller et al.	EP		23 694 A1	2/1998
6.142.369 A	11/2000	Jonstromer	EP		2 298	4/1998
6,202,056 B1	3/2001	Nuttall	EP	0 84	3 449 A2	5/1998
6,385,731 B2	5/2002	Ananda	EP		4 001 A1	5/1999
6,415,156 B1	7/2002		JP	10-2	69291 A	10/1998
6,424,975 B1		Walter et al.	JP	11-	53184 A	2/1999
6,442,570 B1	8/2002		JP	11-2	12785 A	8/1999
6,473,829 B1		Dahman et al.	JP	11-2	13010 A	8/1999
6,510,236 B1		Crane et al.	JP	11-2	72762 A	10/1999
, ,			WO W	O 98/	19237 A1	5/1998
6,553,413 B1		Lewin et al.	WO W	O 98/	33343	7/1998
6,554,192 B2	4/2003	Tingl	WO W	O 98/	37526	8/1998
6,574,643 B2	6/2003	Walter et al.		_		
6,658,568 B1	12/2003	Ginter et al.	cited by exa	mine	r	







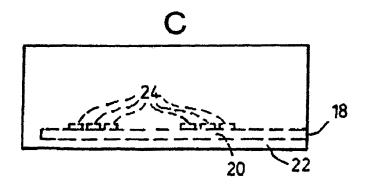




Fig. 2

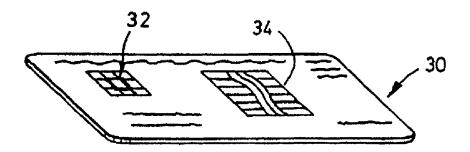
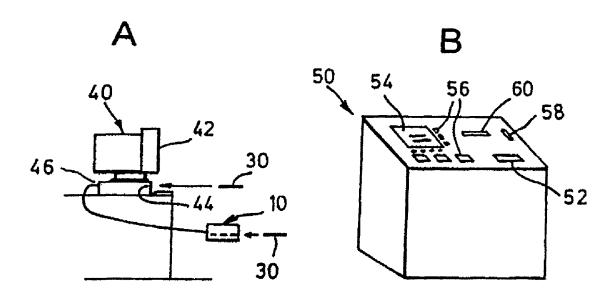
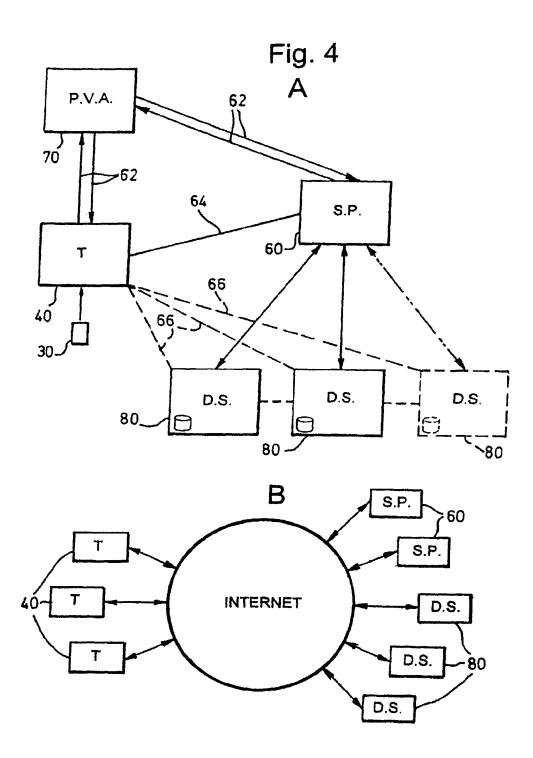


Fig. 3









DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

